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IN THE CLAIMS:

Please amend the claims as follows:

1. (Withdrawn) A method for diagnosing cancer by measuring DNA-dependent

protein kinase activity in cells derived from a test subject.

2. (Withdrawn) A method for diagnosing cancer, the method comprising the steps

of:

measuring DNA-dependent protein kinase activity in cells derived from

a test subject;

measuring DNA-dependent protein kinase activity in cells derived from

a healthy subject; and

comparing the DNA-dependent protein kinase activity in cells derived

from the test subject and the DNA-dependent protein kinase activity in cells

derived from the healthy subject.

3. (Withdrawn) The method for diagnosing cancer according to claim 1 or 2,

wherein the cells are lymphoid cells.

4. (Withdrawn) A cancer diagnosis kit for diagnosing cancer by the method for

diagnosing cancer according to any one of claims 1 to 3.

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- (Withdrawn) The cancer diagnosis kit for diagnosing cancer by the method for diagnosing cancer according to any one of claims 1 to 3, the kit comprising a peptide substrate which is phosphorylated by DNA-dependent protein kinase.
- 6. (Currently Amended) A method for assessing a subject's susceptibility to cancer by measuring DNA-dependent protein kinase activity in cells derived from the subject to determine if the subject should be further screened for eancer is prone to cancer, wherein the measuring comprises detecting the radioactivity of a peptide substrate phosphorylated by the DNA-dependent protein kinase activity of the cells in the presence of a radiolabeled phosphate compound, wherein the cancer is selected from the group consisting of breast cancer[[,]] and uterine cancer, and head and neck cancer.
- 7. (Currently Amended) A method for assessing a subject's susceptibility to cancer to determine if the subject should be further screened for cancer is prone to cancer, the method comprising the steps of:

measuring DNA-dependent protein kinase activity in cells derived from a test subject, wherein the measuring comprises detecting the radioactivity of a peptide substrate phosphorylated by the DNA-dependent protein kinase activity of the cells in the presence of a radiolabeled phosphate compound;

measuring DNA-dependent protein kinase activity in cells derived from a healthy subject, wherein the measuring comprises detecting the radioactivity

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of a peptide substrate phosphorylated by the DNA-dependent protein kinase activity of the cells in the presence of a radiolabeled phosphate compound;

comparing the DNA-dependent protein kinase activity in cells derived from the test subject and the DNA-dependent protein kinase activity in cells derived from the healthy subject, and

determining whether the test subject has an increased likelihood of developing cancer based upon the comparison of the DNA-dependent protein kinase activity of the test subject with the healthy subject, wherein a lower DNA-dependent protein kinase activity for the test subject indicates an increased likelihood of developing cancer, and wherein the cancer is selected from the group consisting of breast cancer[[,]] and uterine cancer, and head and neck cancer.

- 8. (Original) The method for determining cancer susceptibility according to claim6 or 7, wherein the cells are lymphoid cells.
- 9. (Withdrawn) A cancer susceptibility determination kit for determining cancer susceptibility by the method for determining cancer susceptibility according to any one of claims 6 to 8.
- 10. (Withdrawn) The cancer susceptibility determination kit for diagnosing cancer by the method for diagnosing cancer susceptibility according to any one of

claims 6 to 9, the kit comprising a peptide substrate which is phosphorylated by DNA-dependent protein kinase.

11. (Currently Amended) A method for assessing a subject's susceptibility to cancer to determine if the subject should be further screened for cancer is prone to cancer, comprising:

measuring DNA-dependent protein kinase activity in cells derived from a test subject, wherein the measuring comprises detecting the radioactivity of a peptide substrate phosphorylated by the DNA-dependent protein kinase activity of the cells in the presence of a radiolabeled phosphate compound; and

determining susceptibility of the test subject to cancer based upon the measured DNA-dependent protein kinase activity, wherein the cancer is selected from the group consisting of breast cancer[[,]] and uterine cancer, and head and neck cancer.